7,1400

SEQUENCE LISTING

<110> Gao, Zeren Hart, Charles E. Piddington, Christopher S. Sheppard, Paul O. Shoemaker, Kimberly E. Gilbertson, Debra G. West, James W.	
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ctg ctg aca tct gcc ctg gcc ggc cag aga cag ggg act cag gcg g Leu Leu Thr Ser Ala Leu Ala Gly Gln Arg Gln Gly Thr Gln Ala G 10 15 20	
tcc aac ctg agt agt aaa ttc cag ttt tcc agc aac aag gaa cag a Ser Asn Leu Ser Ser Lys Phe Gln Phe Ser Ser Asn Lys Glu Gln A	

		cag Gln 45								318
		cca Pro								366
		tta Leu								414
		aga Arg		_	_	-	-	_		462
		gta Val								510
		ggt Gly 125								558
		agg Arg								606
		tgc Cys								654
		cct Pro								702
		gct Ala								750
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tat a Tyr A																846
aaa t Lys S		-			_	-					~ ~	~ ~	~	_		894
tac a Tyr S																942
aag a Lys A 2										-		-	-		-	990
tgt g Cys G 280																1038
tgt g Cys V																1086
aga c Arg P					_			_						-		1134
gcc c Ala L	_eu								_		_	_		-		1182
gga g Gly G 3		tag *	ccgo	catca	acc a	accag	gcago	ct ct	tgco	caga	a gct	gtgo	cagt			1231
gcttc agaat cttca ttacc ggtaa aactc	caag tag atc atgt ctaa cgct	ga caga ga	cttt gttgt ggaaa gtat gtaca ctcca	cato gcaa agaaa tcca aggaa atgto cacat	et to accompany to the	cagga gctct caaat agctg aact gggco gtaaa	ittta ittta igtta igtga itaaa iccag	a cag g aga g tat c ctg c aag a ato g aac	gtgca nggag taat gtatt gtgag gtat	ittc jgcc itag itca jcac iaaa itat	tgaa taaa atca gtto ctga atct gtao	agagagagagagagagagagagagagagagagagagag	gga g cag g gct a cga t cgt t ctt t	gacat gagaa agttt cacgo cgcct	tgttt caaac aaggt cagag gcttag tgctt ttttt	1291 1351 1411 1471 1531 1591 1651 1711 1760



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IHH

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mgnathmgnt aayathgtna ytnccnytng mgntayytng carytnytng ytnacngarg gargarytna	tygtnwsnga tgccncartt ayytnytnaa arccngarmg gnaargcntt argtnmgnyt	ygartaytty yacngargcn yaaygcnath ntggcarytn ygtnttyggn ntaywsntgy	ccnwsngarc gtnwsnccnw acngcnttyw gayytngarg mgnaarwsnm acnccnmgna	cnggnttytg sngtnytncc snacnytnga ayytntaymg gngtngtnga ayttywsngt	yathcaytay nccnwsngcn rgayytnath nccnacntgg yytnaayytn nwsnathmgn	480 540 600 660 720 780 840
ggnggnaayt gtnacnaara cayaarwsny ggnwsnacng	gygcntgytg artaycayga tnacngaygt	yytncayaay rgtnytncar	tgyaaygart ytnmgnccna	gycartgygt aracnggngt	nccnwsnaar nmgnggnytn	900 960 1020 1035
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125



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		tct gtc Ser Val 185		-				_				813
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		ttt gat Phe Asp	Thr V		_	_		_				909
	Ser Trp	caa gaa Gln Glu	_			_		-	-			957
		agg tca Arg Ser 250	Tyr H	-		-			_	_	_	1005
		gat gat Asp Asp 265										1053
_	-	ata aga Ile Arg	_		_	_	-			_		1101
		ctc ctc Leu Leu	Val G									1149



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 Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val 50
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 Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Leu Thr 75
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Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly 120 Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr 135 Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys 150 155 Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala 170 Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly 180 185 190 Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp 200 205 Ala Leu Asp Lys Lys Ile Ala Glu Phe Asp Thr Val Glu Asp Leu Leu 210 215 220 Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr 230 235 Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser 250 255 Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys 265 Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala 280 Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly 295 300 Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser 305 310 315 320 Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly 325 330 His Ile Lys Arg Arg Gly Arg Ala Lys Thr Met Ala Leu Val Asp Ile 345 Gln Leu Asp His His Glu Arg Cys Asp Cys Ile Cys Ser Ser Arg Pro 355 360 365 Pro Arg 370 <210> 38 <211> 20 <212> DNA <213> Artificial Sequence <220> <223> oligonucleotide primer ZC21,222

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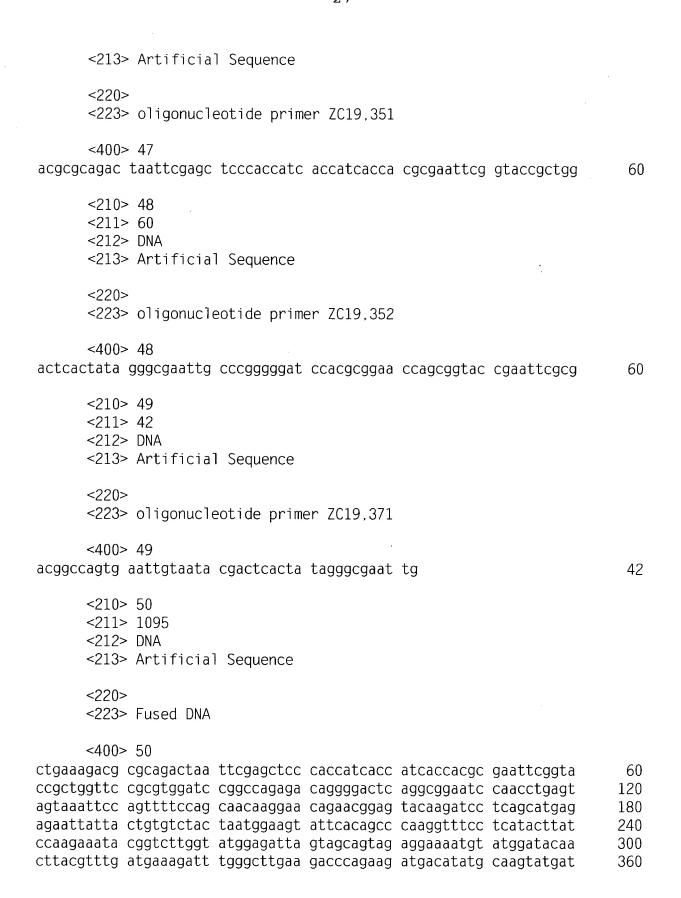
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(66





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